ELSEVIER

Applied Surface Science 240 (2005) I–IV

applied surface science

www.elsevier.com/locate/apsusc

Author Index

Abaci, S., U. Tamer, K. Pekmez and A. Yildiz, Performance of different crystal structures of PbO_2 on electrochemical degradation of phenol in aqueous solution 240 (2005) 112
Abel, E.W., see Zhao, Q. 240 (2005) 441
Amorisco, A., see Losito, I. 240 (2005) 180
Attayibat, A., see Bouklah, M. 240 (2005) 341

Babić-Samardžija, K., K.F. Khaled and N. Hackerman, Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)-cobalt(III) complexes on the corrosion of iron in $HClO_4$ acid 240 (2005) 327
Bai-Xing, H., see Qing-Feng, H. 240 (2005) 244
Basu, S., see Singh, S. 240 (2005) 251
Batista, W.W., see Costa, C.A.R. 240 (2005) 414
Belabbes, R., see Hadjadj-Aoul, O. 240 (2005) 131
Belaidi, A., see Dittrich, T. 240 (2005) 236
Belkadi, M., see Hadjadj-Aoul, O. 240 (2005) 131
Benkaddour, M., see Bouklah, M. 240 (2005) 341
Bi, G., see Rao, Q.- 240 (2005) 28
Bohne, W., see Dittrich, T. 240 (2005) 236
Bouklah, M., A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour, Pyridine–pyrazole compound as inhibitor for steel in 1M HCl 240 (2005) 341

Caram, R., see Costa, C.A.R. 240 (2005) 414
Chae, K.H., see Park, J.Y. 240 (2005) 305
Chang, W., M. Choi, J. Kim, S. Cho and K. Whang, Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction 240 (2005) 296
Chang, W.-J., see Fang, T.-H. 240 (2005) 312
Chau-Nan Hong, F., see Wang, L.-J. 240 (2005) 161
Chen, H.W., see Liao, J.X. 240 (2005) 71
Chen, J.-M., see Hsieh, C.-T. 240 (2005) 318
Chen, M., see Guan, F. 240 (2005) 24
Chitra, R., see Singh, S. 240 (2005) 251
Cho, S., see Chang, W. 240 (2005) 296
Choi, D.S., see Park, J.Y. 240 (2005) 305
Choi, H.-H., J. Park and R.K. Singh, Nanosized titania encapsulated silica particles using an aqueous $TiCl_4$ solution 240 (2005) 7
Choi, M., see Chang, W. 240 (2005) 296
Chu, J.H., see Ma, J.H. 240 (2005) 275
Chunhe, T., see Zhiqiang, F. 240 (2005) 349
Cobo, A.J.G., see Soares Neto, T.G. 240 (2005) 355
Colín L., J.A., J.A. Reyes, A. Vázquez and A. Montoya, Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study 240 (2005) 48
Costa, C.A.R., W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram, Eutectic alloy microstructure: atomic force microscopy analysis 240 (2005) 414
Criquelion, J., see Richard, M. 240 (2005) 204
Cruz, G.M., see Soares Neto, T.G. 240 (2005) 355
Cêtre, J.C., see Richard, M. 240 (2005) 204

Dąbrowski, A., see Seledets, O. 240 (2005) 222
De Barros, M.I., see Richard, M. 240 (2005) 204
Dittrich, T., H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner, Passivation of TiO_2 by ultra-thin Al-oxide 240 (2005) 236

Fan, X.-, see Rao, Q.- 240 (2005) 28
Fang, T.-H. and W.-J. Chang, Microthermal machining using scanning thermal microscopy 240 (2005) 312
Fouad, O.A., see Uddin, M.N. 240 (2005) 120
Fu, C.L., see Liao, J.X. 240 (2005) 71
Fu, Q. and T. Wagner, Determination of growth modes via spectroscopy: new simple analytical models 240 (2005) 189
Fu, Q., see Liao, L. 240 (2005) 175
Fu, Y.Q., see Qian, H.X. 240 (2005) 140
Fuess, H., see Öksüzoglu, R.M. 240 (2005) 405
Fujitani, T., see Nakamura, I. 240 (2005) 77

Ganesh, V., D. Vijayaraghavan and V. Lakshminarayanan, Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition 240 (2005) 286
Gonçalves, M.C., see Costa, C.A.R. 240 (2005) 414
Goud, Y., see Singh, S. 240 (2005) 251
Guan, F., M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue, Fabrication of patterned gold microstructure by selective electroless plating 240 (2005) 24
Guermouche, M.H., see Hadjadj-Aoul, O. 240 (2005) 131
Guminskaya, T., see Dittrich, T. 240 (2005) 236
Gun'ko, V.M., see Seledets, O. 240 (2005) 222

doi:10.1016/S0169-4332(04)01707-6

Hackerman, N., see Babić-Samardžija, K. 240 (2005) 327
Hadjadj-Aoul, O., R. Belabbes, M. Belkadi and M.H. Guermouche, Characterization and performances of an Algerian diatomite-based gas chromatography support 240 (2005) 131
Ham, M.-H., see Moon, T.-H. 240 (2005) 105
Hamada, H., see Nakamura, I. 240 (2005) 77
Hamaguchi, M., see Saito, Y. 240 (2005) 381
Hammouti, B., see Bouklah, M. 240 (2005) 341
Hilt, O., see Dittrich, T. 240 (2005) 236
Hsieh, C.-T., J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu, Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles 240 (2005) 318
Hu, Q.-W., see Li, S. 240 (2005) 63
Hudec, I., see Krump, H. 240 (2005) 268

Jaššo, M., see Krump, H. 240 (2005) 268
Jaziri, S., see Triki, M. 240 (2005) 1
Jaziri, S., see Triki, M. 240 (2005) 2
Jean-Charles, R., see Zhiqiang, F. 240 (2005) 349
Jeong, M.-C., see Moon, T.-H. 240 (2005) 280
Ji, S.-Q., see Li, S. 240 (2005) 63
Jian, S., see Qing-Feng, H. 240 (2005) 244
Jun, L., see Ruijun, W. 240 (2005) 42

Khaled, K.F., see Babić-Samardžija, K. 240 (2005) 327
Kim, J., see Chang, W. 240 (2005) 296
Kim, J.H., T.W. Kim and K.H. Yoo, Interband Stark effects in $In_xGa_{1-x}As/In_yAl_{1-y}As$ coupled step quantum wells 240 (2005) 452
Kim, J.Y., see Park, J.Y. 240 (2005) 305
Kim, M.-S., see Moon, T.-H. 240 (2005) 105
Kim, S.S., see Park, J.Y. 240 (2005) 305
Kim, T.W., see Kim, J.H. 240 (2005) 452
Kim, T.W., see Lee, D.U. 240 (2005) 375
Kodama, R.H., see Singh, S. 240 (2005) 251
Krump, H., M. Šimor, I. Hudec, M. Jaššo and A.S. Luyt, Adhesion strength study between plasma treated polyester fibres and a rubber matrix 240 (2005) 268
Öksüzoglu, R.M., G. Miehe and H. Fuess, Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$ multilayers 240 (2005) 405
Kuo, R.-R., see Hsieh, C.-T. 240 (2005) 318

Lakshminarayanan, V., see Ganesh, V. 240 (2005) 286
Lasagni, A. and F. Mücklich, Study of the multilayer metallic films topography modified by laser interference irradiation 240 (2005) 214
Le Mogne, T., see Richard, M. 240 (2005) 204
Leboda, R., see Seledets, O. 240 (2005) 222
Lee, D.U., T.W. Kim and K.H. Yoo, Dependence of the electronic parameters on the $In_yGa_{1-y}As$ quantum well width in modulation-doped $Al_xGa_{1-x}As/In_yGa_{1-y}As/GaAs$ strained single quantum wells 240 (2005) 375
Lee, W., see Moon, T.-H. 240 (2005) 280
Leng, W.J., see Liao, J.X. 240 (2005) 71
Li, C.M., see Pan, L.K. 240 (2005) 19
Li, D.Y., see Li, W. 240 (2005) 388
Li, H.L., see Shen, C.M. 240 (2005) 34
Li, J.C., see Liao, L. 240 (2005) 175
Li, J.F., X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng, Nickel induced lateral crystallization behavior of amorphous silicon films 240 (2005) 155
Li, S., Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji, Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer 240 (2005) 63
Li, W. and D.Y. Li, Variations of work function and corrosion behaviors of deformed copper surfaces 240 (2005) 388
Li, Z., see Wei, G. 240 (2005) 260
Liao, J.X., L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng, Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium 240 (2005) 71
Liao, L., D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye, Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth 240 (2005) 175
Lim, G.C., see Qian, H.X. 240 (2005) 140
Lin, T., see Ma, J.H. 240 (2005) 275
Lin, T.-S., see Hsieh, C.-T. 240 (2005) 318
Liu, C., see Liao, L. 240 (2005) 175
Liu, D.H., see Liao, L. 240 (2005) 175
Liu, W.M., see Liao, J.X. 240 (2005) 71
Liu, Y., see Zhao, Q. 240 (2005) 441
Liu, Z., see Wei, G. 240 (2005) 260
Losito, I., A. Amorisco, F. Palmisano and P.G. Zambonin, X-ray photoelectron spectroscopy characterization of composite TiO_2–poly(vinylidenefluoride) films synthesised for applications in pesticide photocatalytic degradation 240 (2005) 180
Lu, Q.-, see Rao, Q.- 240 (2005) 28
Lu, X.D., H.M. Wang and Z.R. Zhou, Reciprocating sliding wear behavior of laser-clad small amplitude $Mo_2Ni_3Si/NiSi$ metal silicide composite coatings 240 (2005) 432
Lux-Steiner, M.C., see Dittrich, T. 240 (2005) 236
Luyt, A.S., see Krump, H. 240 (2005) 268

Ma, J.H., X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu, Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on $LaNiO_3$ coated Si substrates by MOD technique 240 (2005) 275
Martin, J.M., see Richard, M. 240 (2005) 204
Mücklich, F., see Lasagni, A. 240 (2005) 214
Meng, X.J., see Ma, J.H. 240 (2005) 275
Miehe, G., see Öksüzoglu, R.M. 240 (2005) 405
Milenkovic, S., see Costa, C.A.R. 240 (2005) 414
Montoya, A., see Colín L., J.A. 240 (2005) 48
Moon, T.-H. and J.-M. Myoung, Effects of oxygen flow rate on the properties of

HfO_2 layers grown by metalorganic molecular beam epitaxy 240 (2005) 197
Moon, T.-H., M.-C. Jeong, W. Lee and J.-M. Myoung, The fabrication and characterization of ZnO UV detector 240 (2005) 280
Moon, T.-H., M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung, Growth and characterization of MOMBE grown HfO_2 240 (2005) 105
Muffler, H.-J., see Dittrich, T. 240 (2005) 236
Musiatowicz, M., see Seledets, O. 240 (2005) 222
Myoung, J.-M., see Moon, T.-H. 240 (2005) 105
Myoung, J.-M., see Moon, T.-H. 240 (2005) 197
Myoung, J.-M., see Moon, T.-H. 240 (2005) 280

Nagano, M., see Uddin, M.N. 240 (2005) 120
Nakamura, I., H. Hamada and T. Fujitani, Structure and NO reactivity of Zr-deposited Pd surfaces 240 (2005) 77
Nakata, S. and H. Okunishi, Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change 240 (2005) 366
Ngoi, B.K.A., see Qian, H.X. 240 (2005) 140
Nishizawa, T., see Saito, Y. 240 (2005) 381

Ogacho, A., see Dittrich, T. 240 (2005) 236
Okunishi, H., see Nakata, S. 240 (2005) 366

Palmisano, F., see Losito, I. 240 (2005) 180
Pan, L.K., C.Q. Sun and C.M. Li, Estimating the extent of surface oxidation by measuring the porosity dependent dielectrics of oxygenated porous silicon 240 (2005) 19
Park, J., see Choi, H.-H. 240 (2005) 7
Park, J.Y., J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae, Surface structure of low-coveraged Cs on Si(0 0 1)-(2×1) system 240 (2005) 305
Pekmez, K., see Abaci, S. 240 (2005) 112
Perret-Liaudet, A., see Richard, M. 240 (2005) 204
Podkościelny, P., see Seledets, O. 240 (2005) 222

Qi, G.J., see Li, J.F. 240 (2005) 155
Qian, H.X., W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim, Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam 240 (2005) 140
Qing-Feng, H., L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian, Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate 240 (2005) 244

Radi, S., see Bouklah, M. 240 (2005) 341
Ramdani, A., see Bouklah, M. 240 (2005) 341
Rao, Q.-, G. Bi, Q.- Lu, H.- Wang and X.- Fan, Microstructure evolution of electroless Ni-B film during its depositing process 240 (2005) 28
Rauwel, G., see Richard, M. 240 (2005) 204
Refaey, S.A.M., Inhibition of steel pitting corrosion in HCl by some inorganic anions 240 (2005) 396
Reyes, J.A. , see Colín L., J.A. 240 (2005) 48
Röhrich, J., see Dittrich, T. 240 (2005) 236
Richard, M., T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin, Detergency of stainless steel surface soiled with human brain homogenate: an XPS study 240 (2005) 204
Rios, C.T., see Costa, C.A.R. 240 (2005) 414
Roa, F. and J.D. Way, The effect of air exposure on palladium–copper composite membranes 240 (2005) 85
Ruijun, W., Q. Yiyu and L. Jun, Interface behavior study of WC92–Co8 coating produced by electrospark deposition 240 (2005) 42

Šimor, M., see Krump, H. 240 (2005) 268
Saito, Y., T. Nishizawa and M. Hamaguchi, A study on the reaction between chlorine trifluoride gas and glass-like carbon 240 (2005) 381
Schirone, L., see Sotgiu, G. 240 (2005) 424
Seledets, O., V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski, Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties 240 (2005) 222
Seo, J.H., see Park, J.Y. 240 (2005) 305
Shen, C.M., X.G. Zhang and H.L. Li, Influence of different deposition potentials on morphology and structure of CdSe films 240 (2005) 34
Shi, F.W., see Ma, J.H. 240 (2005) 275
Singh, R.K., see Choi, H.-H. 240 (2005) 7
Singh, S., S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud, Ultrathin multilayer of Fe and Ge: structure and magnetic properties 240 (2005) 251
Skubiszewska-Zięba, J., see Seledets, O. 240 (2005) 222
Soares Neto, T.G., A.J.G. Cobo and G.M. Cruz, Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents 240 (2005) 355
Sotgiu, G. and L. Schirone, Microstructured silicon surfaces for field emission devices 240 (2005) 424
Strub, E., see Dittrich, T. 240 (2005) 236
Sun, C.Q., see Pan, L.K. 240 (2005) 19
Sun, J.L., see Ma, J.H. 240 (2005) 275
Sun, M.R., see Liao, J.X. 240 (2005) 71
Sun, X.W., see Li, J.F. 240 (2005) 155

Tamer, U., see Abaci, S. 240 (2005) 112
Tessema, G. and R. Vianden, The study of the influence of uniaxial stress on impurity complexes in silicon 240 (2005) 146
Tongxiang, L., see Zhiqiang, F. 240 (2005) 349
Triki, M. and S. Jaziri, Erratum to "Polaronic states in II–VI quantum dot" [Applied Surface Science 238 (2004) 213–217] 240 (2005) 1
Triki, M. and S. Jaziri, Erratum to "Polaronic states in II–VI quantum dot" 240 (2005) 2

Uddin, M.N., O.A. Fouad, M. Yamazato and M. Nagano, Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition 240 (2005) 120

Vedpathak, M., see Singh, S. 240 (2005) 251
Vianden, R., see Tessema, G. 240 (2005) 146
Vijayaraghavan, D., see Ganesh, V. 240 (2005) 286
Vogel, M., see Dittrich, T. 240 (2005) 236
Vázquez, A., see Colín L., J.A. 240 (2005) 48

Wagner, T., see Fu, Q. 240 (2005) 189
Wan, L.-J., see Yin, X.-L. 240 (2005) 13
Wang, G.S., see Ma, J.H. 240 (2005) 275
Wang, H.-, see Rao, Q.- 240 (2005) 28
Wang, H.M., see Lu, X.D. 240 (2005) 432
Wang, J., see Guan, F. 240 (2005) 24
Wang, L.-J. and F. Chau-Nan Hong, Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation 240 (2005) 161
Way, J.D., see Roa, F. 240 (2005) 85
Wei, G., H. Zhou, Z. Liu and Z. Li, A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate 240 (2005) 260
Whang, C.N., see Park, J.Y. 240 (2005) 305
Whang, K., see Chang, W. 240 (2005) 296
Wu, C.-F., see Hsieh, C.-T. 240 (2005) 318

Xia, L.F., see Liao, J.X. 240 (2005) 71
Xian-Cai, L., see Qing-Feng, H. 240 (2005) 244
Xian-Dong, L., see Qing-Feng, H. 240 (2005) 244
Xu, T., see Liao, J.X. 240 (2005) 71
Xue, Q., see Guan, F. 240 (2005) 24

Yamazato, M., see Uddin, M.N. 240 (2005) 120
Yang, C.R., see Liao, J.X. 240 (2005) 71
Yang, W., see Guan, F. 240 (2005) 24
Yang, Z.-Y., see Yin, X.-L. 240 (2005) 13
Ye, M.S., see Liao, L. 240 (2005) 175
Yildiz, A., see Abaci, S. 240 (2005) 112
Yin, X.-L., L.-J. Wan, Z.-Y. Yang and J.-Y. Yu, Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates 240 (2005) 13
Yiyu, Q., see Ruijun, W. 240 (2005) 42
Yong, S., see Guan, F. 240 (2005) 24
Yoo, K.H., see Kim, J.H. 240 (2005) 452
Yoo, K.H., see Lee, D.U. 240 (2005) 375
Yu, J.-Y., see Yin, X.-L. 240 (2005) 13
Yu, M.B., see Li, J.F. 240 (2005) 155
Yun, I., see Moon, T.-H. 240 (2005) 105

Zambonin, P.G., see Losito, I. 240 (2005) 180
Zeng, X.T., see Li, J.F. 240 (2005) 155
Zeng, X.-Y., see Li, S. 240 (2005) 63
Zhang, X.G., see Shen, C.M. 240 (2005) 34
Zhao, Q., Y. Liu and E.W. Abel, Surface free energies of electroless Ni–P based composite coatings 240 (2005) 441
Zhi-Jun, L., see Qing-Feng, H. 240 (2005) 244
Zhiqiang, F., L. Tongxiang, R. Jean-Charles and T. Chunhe, The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition 240 (2005) 349
Zhou, H., see Wei, G. 240 (2005) 260
Zhou, W., see Qian, H.X. 240 (2005) 140
Zhou, Z.R., see Lu, X.D. 240 (2005) 432

ELSEVIER

Applied Surface Science 240 (2005) V–XVII

applied surface science

www.elsevier.com/locate/apsusc

Subject Index

Adsorption

Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244

Alkali metals

Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates, X.-L. Yin, L.-J. Wan, Z.-Y. Yang and J.-Y. Yu 240 (2005) 13

Surface structure of low-coveraged Cs on Si(0 0 1)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305

Alloys

Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71

Al-oxide

Passivation of TiO_2 by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Alumina

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Aluminium

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48

Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71

Annealing

Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161

Atomic force microscopy

The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85

Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140

Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155

Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222

A simple method for the preparation of ultra-high sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

doi:10.1016/S0169-4332(04)01708-8

Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Auger electron spectroscopy

Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189

Baron

Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Biological materials

Detergency of stainless steel surface soiled with human brain homogenate: an XPS study, M. Richard, T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 240 (2005) 204

Cadmium selenide

Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34

Carbon

Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161
Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222

Catalysis

X-ray photoelectron spectroscopy characterization of composite TiO_2–poly(vinylidenefluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180

Catalysts characterization

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Catalysts preparation

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Chemical vapour deposition

Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161

Chlorine trifluoride

A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381

Cobalt

Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in $HClO_4$ acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327

Composites

Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Copper

The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85
Variations of work function and corrosion behaviors of deformed copper surfaces, W. Li and D.Y. Li 240 (2005) 388

Corrosion

Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in $HClO_4$ acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327
Pyridine–pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341
Variations of work function and corrosion behaviors of deformed copper surfaces, W. Li and D.Y. Li 240 (2005) 388
Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396

Crystallinity

Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on $LaNiO_3$ coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275

Deposit structure

Microstructure evolution of electroless Ni-B film during its depositing process, Q.-Rao, G. Bi, Q.- Lu, H.- Wang and X.- Fan 240 (2005) 28

Direct decomposition

Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Dissociation

Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Electrical properties

Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Electrodeposition

Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34

Electroless

Microstructure evolution of electroless Ni-B film during its depositing process, Q.-Rao, G. Bi, Q.- Lu, H.- Wang and X.- Fan 240 (2005) 28
Surface free energies of electroless Ni–P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Electron microscopy

Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24
Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85
Characterization and performances of an Algerian diatomite-based gas chromatography support, O. Hadjadj-Aoul, R. Belabbes, M. Belkadi and M.H. Guermouche 240 (2005) 131
Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140
Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155
Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286
Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
Reciprocating sliding wear behavior of laser-clad small amplitude Mo_2Ni_3Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Electron-phonon interaction

Polaronic states in II-VI quantum dot, M. Triki and S. Jaziri 240 (2005) 2

Electronic structure

Dependence of the electronic parameters on the $In_yGa_{1-y}As$ quantum well width in modulation-doped $Al_xGa_{1-x}As/In_yGa_{1-y}As$/GaAs strained single quantum wells, D.U. Lee, T.W. Kim and K.H. Yoo 240 (2005) 375

Electrospark deposition

Interface behavior study of WC92–Co8 coating produced by electrospark deposition, W. Ruijun, Q. Yiyu and L. Jun 240 (2005) 42

Excess Pb

Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on $LaNiO_3$ coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275

Fe–Al

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Fe–Ni

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Ferroelectric properties

Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on $LaNiO_3$ coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275

Field emission

Microstructured silicon surfaces for field emission devices, G. Sotgiu and L. Schirone 240 (2005) 424

Fractal dimension of surface

Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244

Gallium

Interband Stark effects in $In_xGa_{1-x}As/In_yAl_{1-y}As$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Gas sensor

Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

Glass

Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24

Glass-like carbon

A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381

Gold

Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24

Graphite

Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244

Hafnium

Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

HfO_2

Growth and characterization of MOMBE grown HfO_2, T.-H. Moon, M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung 240 (2005) 105

High-k dielectric materials

Growth and characterization of MOMBE grown HfO_2, T.-H. Moon, M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung 240 (2005) 105

High-density data storage

Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

HTGRs

The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349

Hydrazine decomposition

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Hydrocarbon

Performance of different crystal structures of PbO_2 on electrochemical degradation of phenol in aqueous solution, S. Abaci, U. Tamer, K. Pekmez and A. Yildiz 240 (2005) 112

Characterization and performances of an Algerian diatomite-based gas chromatography support, O. Hadjadj-Aoul, R. Belabbes, M. Belkadi and M.H. Guermouche 240 (2005) 131

Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in $HClO_4$ acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327

Hydrochloric acid

Pyridine–pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

Hydrogen

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48

The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85

Indium

Interband Stark effects in $In_xGa_{1-x}As/In_yAl_{1-y}As$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Inhibition

Pyridine–pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

Interface behavior

Interface behavior study of WC92–Co8 coating produced by electrospark deposition, W. Ruijun, Q. Yiyu and L. Jun 240 (2005) 42

Interfaces

Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$

multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Intermetallic compounds

Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Ion bombardments

Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161

Ion scattering

Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189
Surface structure of low-coveraged Cs on Si(0 0 1)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305

Iridium catalysts

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Iron

Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in $HClO_4$ acid, K. Babić-Samardžija, K.F. Khaled and N. Hackerman 240 (2005) 327
Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Laser interference

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Laser processing

Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63
Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction, W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 240 (2005) 296
Reciprocating sliding wear behavior of laser-clad small amplitude $Mo_2Ni_3Si/NiSi$ metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Lead

Performance of different crystal structures of PbO_2 on electrochemical degradation of phenol in aqueous solution, S. Abaci, U. Tamer, K. Pekmez and A. Yildiz 240 (2005) 112

Magnetic measurements

Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Magnetic moment

Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Manganese

Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396

Metalorganic molecular beam epitaxy

Growth and characterization of MOMBE grown HfO_2, T.-H. Moon, M.-H. Ham, M.-S. Kim, I. Yun and J.-M. Myoung 240 (2005) 105

Microstructure

Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Microthermal machining

Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

Molecular beam epitaxy

Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Molecular sieve

Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161

Molybdenum

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48

Reciprocating sliding wear behavior of laser-clad small amplitude Mo_2Ni_3Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Multilayers

Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Kinetic interface roughening and magneto resistance of sputter-deposited Fe/$Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Nanostructure

Nanosized titania encapsulated silica particles using an aqueous $TiCl_4$ solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7

Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175

A simple method for the preparation of ultra-high sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286

Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318

Interband Stark effects in $In_xGa_{1-x}As$/$In_yAl_{1-y}As$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Neutron reflectometry

Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Ni-B film

Microstructure evolution of electroless Ni-B film during its depositing process, Q.- Rao, G. Bi, Q.- Lu, H.- Wang and X.- Fan 240 (2005) 28

Nickel

Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155

Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286

Kinetic interface roughening and magneto resistance of sputter-deposited Fe/$Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Reciprocating sliding wear behavior of laser-clad small amplitude Mo_2Ni_3Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Ni–Cu–P

Surface free energies of electroless Ni–P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Ni–Cu–P–PTFE

Surface free energies of electroless Ni–P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Ni–P

Surface free energies of electroless Ni–P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Ni–P–PTFE

Surface free energies of electroless Ni–P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Nitrides

Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120

Nitrogen

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48

Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71

Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222

Nitrogen monooxide

Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Nonlinear

Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

Optical properties

Interband Stark effects in $In_xGa_{1-x}As/In_yAl_{1-y}As$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Oxidation

Estimating the extent of surface oxidation by measuring the porosity dependent dielectrics of oxygenated porous silicon, L.K. Pan, C.Q. Sun and C.M. Li 240 (2005) 19

Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction, W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 240 (2005) 296

Oxides

Performance of different crystal structures of PbO_2 on electrochemical degradation of phenol in aqueous solution, S. Abaci, U. Tamer, K. Pekmez and A. Yildiz 240 (2005) 112

Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197

Oxygen desorption

Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Palladium

The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85

Palladium single-crystal surface

Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

Passivation

Passivation of TiO_2 by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Peritectic

Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63

Photochemistry

X-ray photoelectron spectroscopy characterization of composite TiO_2–poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180
Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction, W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 240 (2005) 296

Photocurrent

The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

Photoelectron spectroscopy

Nanosized titania encapsulated silica particles using an aqueous $TiCl_4$ solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7
Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
X-ray photoelectron spectroscopy characterization of composite TiO_2–poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180
Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189
Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy, T.-H. Moon and J.-M. Myoung 240 (2005) 197
Detergency of stainless steel surface soiled with human brain homogenate: an XPS study, M. Richard, T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 240 (2005) 204
Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318
A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381

Photovoltage

Passivation of TiO_2 by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Plasma processing

Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
Effects of surface treatments and annealing on carbon-based molecular sieve membranes for gas separation, L.-J. Wang and F. Chau-Nan Hong 240 (2005) 161
Adhesion strength study between plasma treated polyester fibres and a rubber matrix, H. Krump, M. Šimor, I. Hudec, M. Jaššo and A.S. Luyt 240 (2005) 268

Polaronic states

Polaronic states in II-VI quantum dot, M. Triki and S. Jaziri 240 (2005) 2

Polymers

X-ray photoelectron spectroscopy characterization of composite TiO_2–poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180
Adhesion strength study between plasma treated polyester fibres and a rubber matrix, H. Krump, M. Šimor, I. Hudec, M. Jaššo and A.S. Luyt 240 (2005) 268
Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

Pyridine–pyrazole

Pyridine–pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

PZT thin films

Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on $LaNiO_3$ coated Si substrates by MOD technique, J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 240 (2005) 275

Quantum effects

Interband Stark effects in $In_xGa_{1-x}As/In_yAl_{1-y}As$ coupled step quantum wells, J.H. Kim, T.W. Kim and K.H. Yoo 240 (2005) 452

Quantum structures

Dependence of the electronic parameters on the $In_yGa_{1-y}As$ quantum well width in modulation-doped $Al_xGa_{1-x}As/In_yGa_{1-y}As/GaAs$ strained single quantum wells, D.U. Lee, T.W. Kim and K.H. Yoo 240 (2005) 375

Raman scattering

Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175

A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

rf Magnetron sputtering

The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

Scanning tunneling microscopy

Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates, X.-L. Yin, L.-J. Wan, Z.-Y. Yang and J.-Y. Yu 240 (2005) 13

Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286

Self-assembled quantum dots

Polaronic states in II-VI quantum dot, M. Triki and S. Jaziri 240 (2005) 2

Semiconductors

Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34

Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

SiC

The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349

Silicides

Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155

Reciprocating sliding wear behavior of laser-clad small amplitude Mo_2Ni_3Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

Silicon

Estimating the extent of surface oxidation by measuring the porosity dependent dielectrics of oxygenated porous silicon, L.K. Pan, C.Q. Sun and C.M. Li 240 (2005) 19

Fabrication of patterned gold microstructure by selective electroless plating, F. Guan, M. Chen, W. Yang, J. Wang, S. Yong and Q. Xue 240 (2005) 24

The study of the influence of uniaxial stress on impurity complexes in silicon, G. Tessema and R. Vianden 240 (2005) 146

Nickel induced lateral crystallization behavior of amorphous silicon films, J.F. Li, X.W. Sun, M.B. Yu, G.J. Qi and X.T. Zeng 240 (2005) 155

Surface structure of low-coveraged Cs on Si(0 0 1)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305

Microstructured silicon surfaces for field emission devices, G. Sotgiu and L. Schirone 240 (2005) 424

Silicon oxide

Nanosized titania encapsulated silica particles using an aqueous $TiCl_4$ solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7

Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties, O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 240 (2005) 222

Silver

A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate, G. Wei, H. Zhou, Z. Liu and Z. Li 240 (2005) 260

SiO_2/SiC multiplayer

The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349

Solidification

Eutectic alloy microstructure: atomic force microscopy analysis, C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 240 (2005) 414

Spacecraft propulsion

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents, T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 240 (2005) 355

Sputter deposition

Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Sputtering

Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140

Steel

Effect of carbon content on the microstructure and the cracking susceptibility of Fe-based laser-clad layer, S. Li, Q.-W. Hu, X.-Y. Zeng and S.-Q. Ji 240 (2005) 63

Detergency of stainless steel surface soiled with human brain homogenate: an XPS study, M. Richard, T. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 240 (2005) 204

Pyridine–pyrazole compound as inhibitor for steel in 1M HCl, M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 240 (2005) 341

Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396

Reciprocating sliding wear behavior of laser-clad small amplitude Mo_2Ni_3Si/NiSi metal silicide composite coatings, X.D. Lu, H.M. Wang and Z.R. Zhou 240 (2005) 432

SThM

Microthermal machining using scanning thermal microscopy, T.-H. Fang and W.-J. Chang 240 (2005) 312

structure

Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Sulphides

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48

Surface diffusion

Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140

Surface free energy

Surface free energies of electroless Ni–P based composite coatings, Q. Zhao, Y. Liu and E.W. Abel 240 (2005) 441

Surface morphology

Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120

Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140

Surface roughness

Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles, C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 240 (2005) 318

Surface structure

Surface structure of low-coveraged Cs on Si(0 0 1)-(2×1) system, J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 240 (2005) 305

Surfactants

Self-organization of surfactant molecules on solid surface: an STM study of sodium alkyl sulfonates, X.-L. Yin, L.-J. Wan, Z.-Y. Yang and J.-Y. Yu 240 (2005) 13

Temperature change

Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

Temperature-programmed desorption

A study on the reaction between chlorine trifluoride gas and glass-like carbon, Y. Saito, T. Nishizawa and M. Hamaguchi 240 (2005) 381

Thermal simulation

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Thermodynamics

The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition, F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 240 (2005) 349

Thin films

Influence of different deposition potentials on morphology and structure of CdSe films, C.M. Shen, X.G. Zhang and H.L. Li 240 (2005) 34

The effect of air exposure on palladium–copper composite membranes, F. Roa and J.D. Way 240 (2005) 85

Determination of growth modes via spectroscopy: new simple analytical models, Q. Fu and T. Wagner 240 (2005) 189

Kinetic interface roughening and magneto resistance of sputter-deposited Fe/$Ni_{75}B_{25}$ multilayers, R.M. Öksüzoglu, G. Miehe and H. Fuess 240 (2005) 405

Ti–Al

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Tin

Crystallographically-dependent ripple formation on Sn surface irradiated with focused ion beam, H.X. Qian, W. Zhou, Y.Q. Fu, B.K.A. Ngoi and G.C. Lim 240 (2005) 140

Tin dioxide

Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change, S. Nakata and H. Okunishi 240 (2005) 366

Ti–Ni

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Titania

Passivation of TiO_2 by ultra-thin Al-oxide, T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 240 (2005) 236

Titanium

Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71

Titanium oxide

Nanosized titania encapsulated silica particles using an aqueous $TiCl_4$ solution, H.-H. Choi, J. Park and R.K. Singh 240 (2005) 7

X-ray photoelectron spectroscopy characterization of composite TiO_2–poly(vinylidene-fluoride) films synthesised for applications in pesticide photocatalytic degradation, I. Losito, A. Amorisco, F. Palmisano and P.G. Zambonin 240 (2005) 180

Topography

Study of the multilayer metallic films topography modified by laser interference irradiation, A. Lasagni and F. Mücklich 240 (2005) 214

Tween 80

Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate, H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 240 (2005) 244

Two-dimensional electron gas

Dependence of the electronic parameters on the $In_yGa_{1-y}As$ quantum well width in modulation-doped $Al_xGa_{1-x}As/In_yGa_{1-y}As/GaAs$ strained single quantum wells, D.U. Lee, T.W. Kim and K.H. Yoo 240 (2005) 375

UV detector

The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

Vanadium

Inhibition of steel pitting corrosion in HCl by some inorganic anions, S.A.M. Refaey 240 (2005) 396

WC92–Co8

Interface behavior study of WC92–Co8 coating produced by electrospark deposition, W. Ruijun, Q. Yiyu and L. Jun 240 (2005) 42

Work function

Variations of work function and corrosion behaviors of deformed copper surfaces, W. Li and D.Y. Li 240 (2005) 388

X-ray diffraction

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
Structural characteristics of 2024 aluminum alloy plasma-based ion implanted with nitrogen then titanium, J.X. Liao, L.F. Xia, M.R. Sun, W.M. Liu, T. Xu, C.R. Yang, H.W. Chen, C.L. Fu and W.J. Leng 240 (2005) 71
Deposition and characterization of carbon nitride films from hexamethylenetetramine/N_2 by microwave plasma-enhanced chemical vapor deposition, M.N. Uddin, O.A. Fouad, M. Yamazato and M. Nagano 240 (2005) 120
Characterization and performances of an Algerian diatomite-based gas chromatography support, O. Hadjadj-Aoul, R. Belabbes, M. Belkadi and M.H. Guermouche 240 (2005) 131
Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175
Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition, V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 240 (2005) 286

X-ray reflectometry

Ultrathin multilayer of Fe and Ge: structure and magnetic properties, S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 240 (2005) 251

Zinc oxide

Synthesis and Raman analysis of 1D-ZnO nanostructure via vapor phase growth, L. Liao, D.H. Liu, J.C. Li, C. Liu, Q. Fu and M.S. Ye 240 (2005) 175

Zirconium

Pillar effects in MoS_2 catalysts supported on Al and Zr pillared clays in a hydrotreatment reaction. A preliminary study, J.A. Colín L., J.A. Reyes, A. Vázquez and A. Montoya 240 (2005) 48
Structure and NO reactivity of Zr-deposited Pd surfaces, I. Nakamura, H. Hamada and T. Fujitani 240 (2005) 77

ZnO homojunction

The fabrication and characterization of ZnO UV detector, T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 240 (2005) 280

(*Continued from outside back cover*)

Determination of growth modes via spectroscopy: new simple analytical models
Q. Fu and T. Wagner 189

Effects of oxygen flow rate on the properties of HfO_2 layers grown by metalorganic molecular beam epitaxy
T.-H. Moon and J.-M. Myoung 197

Detergency of stainless steel surface soiled with human brain homogenate: an XPS study
M. Richard, Th. Le Mogne, A. Perret-Liaudet, G. Rauwel, J. Criquelion, M.I. De Barros, J.C. Cêtre and J.M. Martin 204

Study of the multilayer metallic films topography modified by laser interference irradiation
A. Lasagni and F. Mücklich 214

Structural and energetic heterogeneities of pyrocarbon/silica gel systems and their adsorption properties
O. Seledets, V.M. Gun'ko, J. Skubiszewska-Zięba, R. Leboda, M. Musiatowicz, P. Podkościelny and A. Dąbrowski 222

Passivation of TiO_2 by ultra-thin Al-oxide
T. Dittrich, H.-J. Muffler, M. Vogel, T. Guminskaya, A. Ogacho, A. Belaidi, E. Strub, W. Bohne, J. Röhrich, O. Hilt and M.C. Lux-Steiner 236

Variation in surface fractal of graphite due to the adsorption of polyoxyethylene sorbitan monooleate
H. Qing-Feng, L. Xian-Cai, L. Xian-Dong, H. Bai-Xing, L. Zhi-Jun and S. Jian 244

Ultrathin multilayer of Fe and Ge: structure and magnetic properties
S. Singh, S. Basu, M. Vedpathak, R.H. Kodama, R. Chitra and Y. Goud 251

A simple method for the preparation of ultrahigh sensitivity surface enhanced Raman scattering (SERS) active substrate
G. Wei, H. Zhou, Z. Liu and Z. Li 260

Adhesion strength study between plasma treated polyester fibres and a rubber matrix
H. Krump, M. Šimor, I. Hudec, M. Jaššo and A.S. Luyt 268

Effect of excess Pb on crystallinity and ferroelectric properties of PZT(40/60) films on $LaNiO_3$ coated Si substrates by MOD technique
J.H. Ma, X.J. Meng, J.L. Sun, T. Lin, F.W. Shi, G.S. Wang and J.H. Chu 275

The fabrication and characterization of ZnO UV detector
T.-H. Moon, M.-C. Jeong, W. Lee and J.-M. Myoung 280

Fine grain growth of nickel electrodeposit: effect of applied magnetic field during deposition
V. Ganesh, D. Vijayaraghavan and V. Lakshminarayanan 286

Sub-micron scale patterning using femtosecond laser and self-assembled monolayers interaction
W. Chang, M. Choi, J. Kim, S. Cho and K. Whang 296

Surface structure of low-coveraged Cs on Si(0 0 1)-(2×1) system
J.Y. Park, J.H. Seo, J.Y. Kim, C.N. Whang, S.S. Kim, D.S. Choi and K.H. Chae 305

Microthermal machining using scanning thermal microscopy
T.-H. Fang and W.-J. Chang 312

Influence of surface roughness on water- and oil-repellent surfaces coated with nanoparticles
C.-T. Hsieh, J.-M. Chen, R.-R. Kuo, T.-S. Lin and C.-F. Wu 318

Investigation of the inhibiting action of *O*-, *S*- and *N*-dithiocarbamato(1,4,8,11-tetraazacyclotetradecane)cobalt(III) complexes on the corrosion of iron in $HClO_4$ acid
K. Babić-Samardžija, K.F. Khaled and N. Hackerman 327

Pyridine–pyrazole compound as inhibitor for steel in 1M HCl
M. Bouklah, A. Attayibat, B. Hammouti, A. Ramdani, S. Radi and M. Benkaddour 341

The stability of SiC coating and SiO_2/SiC multilayer on the surface of graphite for HTGRs at normal service condition
F. Zhiqiang, L. Tongxiang, R. Jean-Charles and T. Chunhe 349

Evolution of morphologic properties on the preparation of Ir/Al_2O_3 catalysts with high metallic contents
T.G. Soares Neto, A.J.G. Cobo and G.M. Cruz 355

Characteristic responses of a semiconductor gas sensor depending on the frequency of a periodic temperature change
S. Nakata and H. Okunishi 366

Dependence of the electronic parameters on the $In_yGa_{1-y}As$ quantum well width in modulation-doped $Al_xGa_{1-x}As/In_yGa_{1-y}As/GaAs$ strained single quantum wells
D.U. Lee, T.W. Kim and K.H. Yoo 375

A study on the reaction between chlorine trifluoride gas and glass-like carbon
Y. Saito, T. Nishizawa and M. Hamaguchi 381

Variations of work function and corrosion behaviors of deformed copper surfaces
W. Li and D.Y. Li 388

Inhibition of steel pitting corrosion in HCl by some inorganic anions
S.A.M. Refaey 396

Kinetic interface roughening and magneto resistance of sputter-deposited $Fe/Ni_{75}B_{25}$ multilayers
R.M. Öksüzoglu, G. Miehe and H. Fuess 405

Eutectic alloy microstructure: atomic force microscopy analysis
C.A.R. Costa, W.W. Batista, C.T. Rios, S. Milenkovic, M.C. Gonçalves and R. Caram 414

Microstructured silicon surfaces for field emission devices
G. Sotgiu and L. Schirone 424

Reciprocating sliding wear behavior of laser-clad small amplitude $Mo_2Ni_3Si/NiSi$ metal silicide composite coatings
X.D. Lu, H.M. Wang and Z.R. Zhou 432

Surface free energies of electroless Ni–P based composite coatings
Q. Zhao, Y. Liu and E.W. Abel 441

Interband Stark effects in $In_xGa_{1-x}As/In_yAl_{1-y}As$ coupled step quantum wells
J.H. Kim, T.W. Kim and K.H. Yoo 452

Author Index I

Subject Index V